



THOMAS JEFFERSON HIGH SCHOOL

CTE PROGRAMS OF STUDY



**CLASSROOM
TO CAREER**

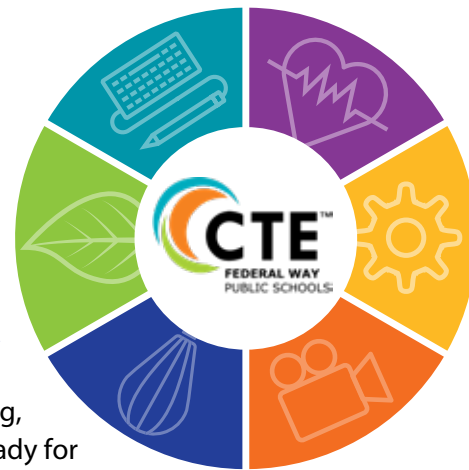
Your future is right here.



**FEDERAL WAY
PUBLIC SCHOOLS**



Career Planning through CTE course offerings



CTE is focused on providing students with skills, knowledge and other training to prepare them for a career.

Benefits of CTE include:

- Exploration of real career opportunities
- Development of career skills
- Work-based learning activities
- Industry Recognized Credentials and Certifications (IRCs)
- CTE college credit
- Leadership and extended learning through CTE clubs and student organizations
- High School equivalency credit
- Bridge to future education

Interested in what other FWPS high schools offer? Scan here to explore the CTE Programs of Study by high school



In Federal Way Public Schools, our scholars will successfully navigate the critical transitions in their schooling, and will graduate from high school ready for college, career, and post-secondary experiences.

This resource organizes the CTE courses offered at Thomas Jefferson High School, and can help you when it's time to register for courses. CTE courses are organized into 6 CTE Programs of Study that align to high-wage, in-demand and high-skill careers:

- AGRICULTURAL EDUCATION***
- BUSINESS AND MARKETING**
- FAMILY AND CONSUMER SCIENCES**
- HEALTH SCIENCES**
- SKILLED AND TECHNICAL SCIENCES**
- SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM)**

Answer the questions below to plan your career path using CTE Programs of Study and CTE courses offered. Answers can be found in the Program of Study charts included in this booklet.

- A career I'm interested in learning more about is *(see column 4 in the Program of Study charts)*

- This career falls under the _____
Program of Study *(see title above your selected Program of Study chart)*
- Possible CTE courses that align to this career are *(see column 2 in the Programs of Study charts)*

- Is the above course eligible for CTE college credit (dual credit)?
(see column 3 for College Credit information) Yes No
- Industry Recognized Credentials or Certifications (IRCs) are desirable to employers and can help me enter the workforce. Is there an IRC offered in this course?
(see column 3 for IRC information) Yes No
- What post-secondary programs are available under this Program of Study?
(see column 5 for Post-Secondary Programs & Degrees)

Talk to your high school counselor and/or high school college and career specialist as you continue to explore and plan for college, career, and post-secondary programs that best fit your individual needs, skills and interest.

* Program of Study only offered at Decatur High School

Business and Marketing

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/ INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
ARTS, A/V TECHNOLOGY AND COMMUNICATION	Publishing (Yearbook)	EQUIVALENCY CREDIT: Fine Arts	Accounting Administrative Assistant Advertising Auditor	TECHNICAL PROGRAMS IN BUSINESS, ADMINISTRATION, & MARKETING Accounting: Bates, Bellevue, Clover Park, Green River, Highline, Lake Washington, Pierce, Renton, South Seattle, Tacoma Banking & Support Services: Renton Business Adm. Management: Bates, Bellevue, Highline, Pierce, Renton, Tacoma Computer Science: Bates, Pierce Human Resources Management: Bellevue, Pierce, Tacoma Marketing Management: Bates, Bellevue, Green River, Highline, Pierce Retail Management: Bellevue, Clover Park, Highline Office Management: Bellevue, Clover Park, Pierce, Renton, Seattle Central, South Seattle
	INCubator Entrepreneurship	COLLEGE CREDIT: Green River College • BUS 164 – Entrepreneurship and Small Business Management (5 credits) Highline College • BUSN 155 – Entrepreneurship (3 credits) Renton Technical College • BUS 125 – Concept to Commercialization (5 credits)	Brand Management Business Manager Certified Public Accountant Computer Equipment Repair	
BUSINESS, MANAGEMENT AND ADMINISTRATION	IB Business Management SL, HL	EQUIVALENCY CREDIT: Math COLLEGE CREDIT: IB Green River College • BUS 164 – Entrepreneurship and Small Business Management (5 credits) Highline College • BUSN&101 – Introduction to Business (5 credits) Renton Technical College • BUS 900 – Business Elective (5 credits)	Computer Network & Data Computer Programmer Computer Science Engineer Computer Support Specialist Computer Systems Analyst	UNIVERSITY PROGRAMS Business Administration: EWU, CWU, WSU, UW, WWU Information Technology: Design Tech: EWU IT & Information Management: CWU Digital Technology: WSU Information Systems and Operations Management: UW <i>Additional programs may be available, please check individual colleges for more information.</i>
	Personal Finance Math	EQUIVALENCY CREDIT: Math COLLEGE CREDIT: Green River College • BATC 110 – Business Math Applications (5 credits) Highline College • BUSN 133 – Basic Money Management (3 credits) Renton Technical College • AMATH 175 – Applied Mathematics for Business and Industry (5 credits)	Computer Technician Controller Court Reporter Database Administrator Economist Entrepreneur Event Planner Funeral Director Game Designer	
	Computer Applications	COLLEGE CREDIT: Green River College (earn one of the below) • BTAC 100 – Fundamentals of Computers (5 credits) • BTAC 111 – Introduction to Computer Literacy (5 credits) • BTAC 112 – Beginning Word (5 credits) Highline College • BSTEC 105 – Intro to Computers & Windows (3 credits) Renton Technical College • IT 101 – Fundamentals Computing Office 365 (5 credits) INDUSTRY RECOGNIZED CREDENTIAL: Microsoft Office Specialist (MOS) Fundamentals —various certs	Information Technology Specialist/Manager Insurance Agent International Business Inventory Manager Loan Officer Market Research Analyst Marketing Manager Media Buyer/Planner Office Manager Personnel Recruiter Public Relations Real Estate Appraiser Research Specialist Retail Sales Supervisor Sales Representative Small Business Owner Stock Broker Systems Administrator Tax Examiner Tax Preparer Underwriter Web Developer Wholesale & Retail Buyer	
INFORMATION TECHNOLOGY	IB Computer Science SL, HL	COLLEGE CREDIT: IB		
	Intro to Computer Science and Game Design	COLLEGE CREDIT: Green River College • BTAC 184 – Internet and Basic Web Design (5 credits)		
	Web Design	COLLEGE CREDIT: Green River College • BATC 184 – Internet and Basic Web Design (5 credits) Highline College • VICOM 100 – Intro to Web Design (5 credits)		
MARKETING	Introduction to Marketing	COLLEGE CREDIT: Green River College • BUS 121 – Marketing Fundamentals (5 credits) Highline College • BUSN 138 – Principles of Marketing (5 credits) Renton Technical College • BUS 900 – Business Elective (5 credits) INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card		

(continued)

MARKETING	Marketing Operations, Scholar Store	COLLEGE CREDIT: Green River College <ul style="list-style-type: none">BUS 121 – Marketing Fundamentals (5 credits) Highline College <ul style="list-style-type: none">BUSN 175 – Retailing (5 credits) <hr/> INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card		
	Sports and Entertainment Marketing	COLLEGE CREDIT: Green River College <ul style="list-style-type: none">BUS 121 – Marketing Fundamentals (5 credits) Renton Technical College <ul style="list-style-type: none">BUS 900 – Prof-Tech Program Elective (5 credits)		
CAREER CHOICES	IB Career Program Skills (Applies to all programs of study)			

Family and Consumer Sciences

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/ INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
EDUCATION AND TRAINING	Teacher Academy	COLLEGE CREDIT: Green River College <ul style="list-style-type: none">EDUC& 136 – School-Age Care (3 credits)EDUC& 205 – Introduction to Education with Field Experience (5 credits) Highline College <ul style="list-style-type: none">EDEC& 120 – Early Childhood Practicum (2 credits)EDUC& 136 – School Age Care (3 credits)EDUC& 202 – Intro to Education (5 credits) Renton Technical College <ul style="list-style-type: none">ECED& 105 – Intro to Early Childhood (5 credits) <hr/> INDUSTRY RECOGNIZED CREDENTIAL: WA STARS (Child Care Basics) Certification General Paraeducator	Baker Banquet Chef Caterer Chef Child Care Worker Clergy College Professor Counselor Educational Administrator Employment Interviewer Executive Chef	TECHNICAL PROGRAMS IN EDUCATION Early Childhood Ed & Teaching: Bates, Bellevue, Clover Park, Green River, Highline, Pierce, Renton, Seattle Central Prof-Tech Teaching: Bates, Lake Washington Teacher Aide: Bates, Clover Park, Green River, Pierce, Tacoma Sign Language Interpretation: Seattle Central <hr/> TECHNICAL PROGRAMS IN PROJECT MANAGEMENT Highline College
	HEALTH SCIENCE	Nutrition and Wellness	INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card	Facilities Management Food Service Manager Food Production Supervisor Government Executive & Legislative Librarian Library Technician Resort Manager Restaurant Manager Sign Language Interpreter Social Worker Teacher
HOSPITALITY AND TOURISM	Culinary Arts Foundations	COLLEGE CREDIT: Renton Technical College <ul style="list-style-type: none">CUL 103 – Knife Skills (3 credits) <hr/> INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card		
	ProStart 1	COLLEGE CREDIT: Renton Technical College <ul style="list-style-type: none">CUL 105 – Culinary Foundations (3 credits) <hr/> INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card		
	ProStart 2	COLLEGE CREDIT: Renton Technical College <ul style="list-style-type: none">CUL 110 – Fundamentals 1 (3 credits) <hr/> INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card National Restaurant Assoc (NRA) ServSafe Certification		
HUMAN SERVICES	Child Development	COLLEGE CREDIT: Green River College <ul style="list-style-type: none">EDUC& 115 – Child Development (5 credits) Highline College <ul style="list-style-type: none">EDUC& 115 – Child Development (5 credits) Renton Technical College <ul style="list-style-type: none">EDUC 115 – Child Development (5 credits) <hr/> INDUSTRY RECOGNIZED CREDENTIAL: Food Worker Card WA STARS (Child Care Basics)		
	Family Psychology and Health	EQUIVALENCY CREDIT: Health <hr/> INDUSTRY RECOGNIZED CREDENTIAL: First Aid/CPR		
CAREER CHOICES	IB Career Program Skills (Applies to all programs of study)			

Health Sciences

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
HEALTH SCIENCE	IB Sports Exercise Health Science	EQUIVALENCY CREDIT: Lab Science COLLEGE CREDIT: IB	Anesthesiologist Athletic Trainer Biochemist Bio-Tech Lab Technician Certified Nursing Assistant Chiropractor Clinical Medical Assistant Dental Assistant Dental Hygienist Dentist Dietician EMT/Paramedic Health Care Administration Home Health Aide Massage Therapist Medical Transcriptionist Nurse Practitioner Optometrist Pharmacist Pharmacy Technician Physical Therapist Physician Psychologist Registered Nurse Speech Pathologist Sports Trainer Surgeon Surgical Technician Ultrasound Technician	TECHNICAL PROGRAMS IN MEDICAL/HEALTH <i>Biological Lab Tech:</i> Bates <i>Central Service Tech:</i> Clover Park <i>Dental Assistant:</i> Bates, Clover Park, Pierce, Lake Washington, Renton, Seattle Central <i>Dental Hygienist:</i> Bates, Clover Park, Pierce, Lake Washington, Renton, Seattle Central <i>Dental Lab Tech:</i> Bates <i>Emergency Med Tech:</i> Tacoma <i>Forensic Tech:</i> Green River <i>Health Unit Coord./Ward Clerk:</i> Bellevue, Clover Park <i>Hemodialysis:</i> Clover Park <i>Medical Assistant:</i> Bellevue, Clover Park, Highline <i>Medical Insurance Coding:</i> Bates, Highline, Tacoma <i>Medical Records/Health Info. Mgmt.:</i> Highline, Tacoma <i>Medical Transcription/Scribe:</i> Bates, Tacoma <i>Nursing Assistant:</i> Clover Park, Green River, Tacoma <i>Nursing-Associate Degree:</i> Bellevue, Clover Park, Highline, Renton, Tacoma, South Seattle <i>Nursing Practical:</i> Bates, Clover Park, Green River, Highline, Lake Washington, Pierce, Renton, South Seattle <i>Optometric Tech:</i> Renton <i>Radiologic Tech:</i> Bellevue, Tacoma <i>Respiratory Therapy:</i> Highline, Seattle Central, Tacoma <i>Sign Language Interpreter:</i> Seattle Central <i>Substance Abuse Counseling:</i> Bellevue, Clover Park, Seattle Central, Highline <i>Surgical Tech:</i> Clover Park, Seattle Central <i>Ultrasound Tech:</i> Bellevue, Tacoma <i>Veterinary Assistant:</i> Pierce
				UNIVERSITY PROGRAMS <i>Animal Biology/Zoology:</i> UW, WWU, WSU <i>Athletic Training:</i> EWU, Whitworth, WSU <i>Biotechnology:</i> WSU, UW <i>Dietician:</i> CWU, WSU, UW <i>Medicine:</i> UW, WSU <i>Nursing:</i> UW, EWU, WSU <i>Pharmaceutical Sciences:</i> WSU, UW <i>Physical Therapy:</i> EWU, UPS, UW <i>Veterinary Science:</i> WSU <i>Additional programs may be available, please check individual colleges for more information.</i>
CAREER CHOICES	IB Career Program Skills (Applies to all programs of study)			



Skilled and Technical Sciences

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/ INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
ARCHITECTURE & CONSTRUCTION	Carpentry Essentials	INDUSTRY RECOGNIZED CREDENTIAL: OSHA 10/30 Hr. General Industry	Air Traffic Controller Airplane Pilot	TECHNICAL PROGRAMS IN ARTS, A/V TECHNOLOGY & COMMUNICATION <i>Animation:</i> Lake Washington <i>Computer Graphics:</i> Bellevue, Lake Washington, Pierce <i>Commercial Photography/Commercial Advertising/Art:</i> Seattle Central <i>Media, Communications & Design:</i> Bates, Bellevue, Clover Park, Highline, Lake Washington, Seattle Central, Pierce, Whitman <i>Photographic & Film/Video:</i> Bellevue, Central, Eastern, DigiPen, Lake Washington, Whitman, Seattle U <i>Radio/Television Broadcasting Tech:</i> Bates, South Seattle
	Carpentry Specialist 1–2	INDUSTRY RECOGNIZED CREDENTIAL: OSHA 10/30 Hr. General Industry	Animator Architect Art Director Art Therapist Artist Artistic Director Audio Systems Technician Audio-Visual Designer & Engineer Audio-Visual Specialist Automobile Mechanic Broadcast Technician Cabinet Maker Camera Operator Carpenter Cartoonist Cinematographer Civil Engineer Computer Animation Construction Foreman Construction & Building Inspector Construction Manager Correctional Officer Customs Agent Design Engineer Detective Drafter Drywall Installer Electrical Engineering Electrician Electronic Engineer Fashion Designer FBI Agent Film Making Fire Inspector General Contractor Graphic Designer Illustrator Industrial Engineer Interior Designer Machinist Mechanical Engineer Military Officer Military Service Painting Plumber Potter Prop Crafts Artisan Sculptor Set Designer Sheet Metal Worker Sign Painter Tattoo Artist	
	Construction Foundations	COLLEGE CREDIT: Green River College • CARP 113 – Foundations and Floor Framing (2 credits) INDUSTRY RECOGNIZED CREDENTIAL: OSHA 10/30 Hr. General Industry	Technical Computer Support Video Systems Technician Videographer & Special Effects Welding Technician	
ARTS, A/V TECHNOLOGY AND COMMUNICATION	Commercial Photography	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: Highline College • VICOM 147 – Introduction to Digital Photography (5 credits)		TECHNICAL PROGRAMS IN SKILLED & TECHNICAL SCIENCES <i>Architectural Engineering/Drafting:</i> Clover Park, Green River, Lake Washington, Renton, South Central <i>Biomedical Tech:</i> Bates, Clover Park <i>Civil Engineering Tech/Civil Drafting:</i> Bates, Clover Park, Renton <i>Composites:</i> Bellevue, Clover Park <i>Computer Tech:</i> Bates, Bellevue, Clover Park, Green River, Pierce <i>Drafting/Design CAD/CADD:</i> Clover Park, Green River, Highline, Lake Washington, Renton, North Seattle, South Seattle <i>Electronic Engineering Tech:</i> Bates <i>Engineering Tech:</i> Clover Park <i>Fire Security Tech:</i> Clover Park <i>Industrial, Construction, & Manufacturing Programs:</i> Bates, Clover Park, Green River, Lake Washington, Pierce, Renton, Seattle Central, South Seattle <i>Information Technology Programs:</i> Bates, Bellevue, Clover Park, Green River, Highline, Lake Washington, Pierce, Renton, Seattle Central, South Seattle <i>Mechanical Tech/Drafting:</i> Bates, Clover Park, Green River, Lake Washington, South Seattle <i>Mechanics Programs:</i> Bates, Bellevue, Clover Park, Green River, Highline, Lake Washington, Pierce, Renton, Seattle Central, South Seattle <i>Occupational Safety:</i> Pierce
	Pottery 1–2	EQUIVALENCY CREDIT: Fine Arts		
	Design & Applied Art 1–2	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: Highline College • VICOM 132 – Drawing for Illustration 1 (5 credits—must complete both Design and Applied Art 1 and 2)		
	Graphic Design 1–2	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: Highline College • VICOM 110 – Graphic Design 1 (5 credits—must complete both Graphic Design 1 and 2)		
	Video Production 1–2	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: Highline College • MMD 130 – Multimedia for the Web (5 credits—must complete both 1 & 2)		
	IB Visual Arts	EQUIVALENCY CREDIT: Fine Arts COLLEGE CREDIT: IB		
	LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY	Forensic Science	EQUIVALENCY CREDIT: Science COLLEGE CREDIT: Green River • CJ& 240 – Introduction to Forensic Science (5 credits) Highline College • CJ& 240 – Introduction to Forensic Science (5 credits)	
MANUFACTURING	Cabinet Making & Millwork 1–2	COLLEGE CREDIT: Green River College • CARP 164 – Intermediate Woodworking and Cabinetry (4 credits—must complete both Cabinet Making & Millwork 1 and 2, and present portfolio of projects completed to earn credit)		
	Woodworking	COLLEGE CREDIT: Green River College • INDUS 101 – Basic Woodworking (4 credits—must present portfolio of projects completed to earn credit)		
CAREER CHOICES	IB Career Program Skills (Applies to all programs of study)			

Additional programs may be available, please check individual colleges for more information.

STEM

CAREER CLUSTER	HIGH SCHOOL COURSE TITLE	EQUIVALENCY CREDIT/COLLEGE CREDIT/INDUSTRY RECOGNIZED CREDENTIALS	CAREERS	POST-SECONDARY PROGRAMS & DEGREES
SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS	Introduction to Engineering Design	EQUIVALENCY CREDIT: 3rd Math COLLEGE CREDIT: Renton Technical College • DFT 113 – Introduction to Computer-Aided Design (5 credits)	Aeronautical Engineer Aircraft Mechanic Airplane Assembler Architectural & Engineering Manager CAD Designer Civil Engineer Design Engineer Drafter Industrial/Mechanical Engineer Robotics Engineer Sustainability Specialist	TECHNICAL SCHOOLS WITH STEM PROGRAMS <i>Engineering Technology:</i> Bates, Walla Walla <i>Computer Engineering:</i> DigiPen UNIVERSITIES WITH STEM PROGRAMS <i>Civil Engineering:</i> St. Martin's, Gonzaga, Seattle U <i>Computer Engineering:</i> EWU, Seattle Pacific, WWU, Gonzaga, Seattle U <i>Electrical Engineering:</i> EWU, Seattle Pacific, WWU, Gonzaga, Seattle U <i>Manufacturing Engineering:</i> WWU <i>Mechanical Engineering:</i> EWU, Seattle Pacific, Gonzaga, Seattle U <i>Additional programs may be available, please check individual colleges for more information.</i>
	Principles of Engineering and Robotics	EQUIVALENCY CREDIT: Lab Science		
	Aerospace Engineering	EQUIVALENCY CREDIT: 3rd Math or Lab Science		
	Engineering Design & Development	EQUIVALENCY CREDIT: Science		
CAREER CHOICES	IB Career Program Skills (<i>Applies to all programs of study</i>)			





The contents of this publication were developed with funds allocated by the U.S. Department of Education under the Carl D. Perkins Career and Technical Education Act.

